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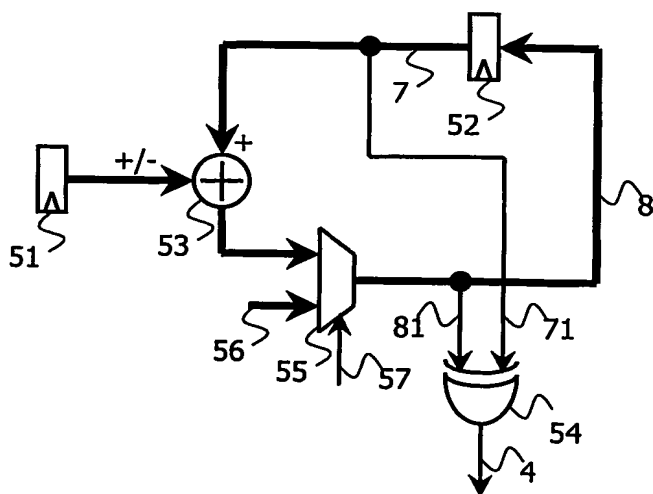
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**(54) Title: DIGITAL SAMPLING FREQUENCY CONVERTER**



**(57) Abstract:** The present invention relates to a converter converting an input digital signal into an output digital signal. Said converter comprises in particular a set of shift registers able to contain samples of the input or output digital signal. It also comprises a calculation unit able to supply a shift signal (4) to said set of registers. Said calculation unit comprises a first storage unit (51) able to contain a value of a conversion ratio or of its inverse, so that the value stored is between 0 and 1. It also comprises a second storage unit (52) able to contain, at a cycle time  $i+1$ ,  $i$  being an integer, a future signal (8) equal to a sum of a current signal (7) contained in the second unit at a cycle time  $i$  and of the content of the first storage unit. The shift signal then results from an exclusive OR function (54) between a most significant bit of the current signal (71) and a most significant bit of the future signal (81).

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